

## RECRUITMENT NOTICE

### Chaire de Professeur Junior (CPJ)

#### For a duration of:5 years

Recruitment for a research and teaching project on a fixed-term contract known as the " Chaire de Professeur Junior " aims to allow the candidate, after evaluation of its scientific value and professional aptitude, to access a permanent position as university professor.

Details regarding the recruitment process and the contract are available online:  
<https://www.uca.fr/universite/travailler-a-luca/recrutement-chaire-professeurs-juniors>

### Job description and project statement

**Title of contract and position to be filled:** Professeur Junior specialized in complex fermentation processes for food and human health

**Position:** Professor

**Hosting institution:** Clermont Auvergne University

Name of the head of establishment /organization: Mathias BERNARD

Location: Aurillac

Academic region: Auvergne Rhône Alpes

Position number: PR0006

Component: IUT Clermont Auvergne

Laboratory: Unité Mixte de Recherche sur le Fromage (UMRF)

Partners institutions/organizations: INRAE, VetAgro Sup

**Project name:** Study and optimisation of complex fermentation processes for food and human health.  
 Acronym : FLASH (Fermentation aLimentAtion Santé Humaine)

**Key words:** Fermentation, microbiota

**Intended duration:** 5 years

**Scientific theme:** Microbiology, Fermentation, agri-food, health, biotechnology

**Corresponding CNU/CoNRS/CSS section(s):** CNU 62, 64, 65, 68

**Research fields EURAXESS:**

<i>Champs 1</i>	<i>Sous-champs 1</i>	<i>Champs 3</i>	<i>Sous champs 3</i>
Technology	Biotechnology	Biological sciences	Nutritional sciences
<i>Champs 2</i>	<i>Sous champs 2</i>	<i>Champs 4</i>	<i>Sous-champs 4</i>
Biological sciences	Other	Biological sciences	Biodiversity

**Job profile:**

Fermentation researcher studying complex fermentation processes using synthetic consortia and/or complex microbiota using omics tools and teaching fermentation and food biotechnology at the master 2 level.



#### University strategy:

The University Clermont Auvergne (UCA) aims to be a major player in the renewal of the territories, a major university of education and research of international dimension, strongly connected to its territorial environment and to the socio-economic world. The UCA is one of the 8 universities of excellence permanently awarded the I-SITE label. The CAP20-25 initiative has supported the development of this university by focusing on the theme of "Designing sustainable living and production models", which is the subject of the scientific project of the junior professor chair (CPJ). In addition, a new Master's course in Microbiology, specialised in fermentation and applied microbiology, will be created in the context of the structuring of the PEM2i (Pole of Excellence in Microbiology, Industry and Innovation) in Aurillac city. This work-study Master is intended to broaden the range of training in the field of applied microbiology to meet the needs of local, national and international companies. This recruitment is fully in line with the skills required for the development of training and research in the applied microbiology fields of expertise.

#### Laboratory strategy:

The person recruited will carry out his or her research activities within the UMR O545 Research Unit (Director: C. Chassard), on the Technology University Institute (IUT) of the University of Clermont Auvergne, in Aurillac.

The UMR aims to better understand the construction of the sensory and nutritional qualities of traditional cheeses with complex microbiota. The project is structured around two lines of research, from the production of raw milk to the consumer. The first concerns the study of microbial diversity, the construction of qualities and the consumer perception of traditional cheeses. The second is focused on the control of sanitary quality and on the optimisation of the nutritional properties of traditional cheeses for the health and satisfaction of the consumer. Fermented foods and the optimisation and development of new fermentation processes are a source of innovation in the fields of healthy and sustainable food and human health. These themes are targeted by the Grand Défi des Ferments du Futur (France 2030 Sustainable Food and Health Strategy) and the COST PIMENTO Action (CA 20128), two international projects in which the UMR is involved, to contribute to innovation in the fields of microorganisms, fermented foods and human health. The recruitment will strengthen this research axis.

**Scientific project:**

Understanding fermentation processes, interactions between microorganisms and microorganism/matrix interactions are major challenges for optimising these complex processes. This CPJ is therefore positioned on the study of complex fermentation processes involving consortia and/or complex microbiota.

The objectives of the project are:

- (1) to optimise fermentation processes for food and human health
  - (2) to develop new innovative ferments for traditional fermentations and novel foods
  - (3) to characterise the interaction mechanisms between microorganisms and food matrices. The implementation of omics approaches could be an advantage for these mechanistic studies.
- This research will be carried out in collaboration with the many academic and industrial partners of UMRF 0545 and may target different types of microorganisms, complex fermentations and foods, depending on the skills of the candidate recruited.

Location:UMRF 0545

Name of Director:Chassard Christophe

☎ Lab Director:+33 761887924

@ Lab Director:christophe.chassard@inrae.fr

Website:https://www6.clermont.inrae.fr/umrf

**Teaching project:**

The teaching project will be carried out within the Master's degree in Microbiology, and more particularly a new course being created, at the University Clermont Auvergne. The second year of this Master will be a work-study course in industrial microbiology and fermentation (64h eqTD) at the Aurillac campus. The person recruited will have a central role on the Aurillac site by ensuring the link between the BUT and Master's curricula and contributing to the collective dynamic. He/she will have to create lectures of theoretical contributions but also to supervise work allowing the acquisition of skills in fermentation and food biotechnology, according to his/her skills (microbial diversity, physiology, omics approaches). This choice provides sufficient flexibility to integrate his/her expertise and to make the most of it in this training framework. Indeed, the project of this CPJ concerns a scientific front that is a source of innovation and therefore of major industrial challenges. The integration of these courses into highly applied scientific questions will be appreciated in order to strengthen our industrial partnerships and contribute to the professionalization of the alternating students.

Location:IUT Clermont Auvergne, UCA

Name of director:Agbessi Eric

☎ IUT director:Agbessi Eric

@ IUT director:+33473177010

Website :https://iut.uca.fr/

**Funding:**

Total financed on CPJ (Including ANR package)	200000 €
Co-financing (INRAE)	53000€
Total funding	200000 €

The funding will be mainly dedicated to the recruitment of a PhD student (120 Keuros over 3 years) and to a postdoctoral fellow for one year (47 Keuros). 5 keuros will be allocated to the travel funding, including professional travel for the project but also participation in scientific conferences to increase the visibility of the person recruited. 5 Keuros will be allocated to the payment of publication fees for scientific articles to ensure a wide dissemination of the research carried out. Finally, the remaining resources will be used for the operation of the project and in particular for laboratory consumables (23 keuros).

#### **Diffusion scientifique:**

The recruited person will aim to publish his/her work in internationally peer-reviewed journals. Priority will be given to original articles, but the writing of reviews and opinion papers may increase the visibility of the person recruited. He or she will be able to communicate the progress of his or her research in national and international specialised conferences but also to non-specialist audiences (popularisation and awareness-raising actions), or via the COST Pimento Action.

#### **Open science:**

The person recruited will participate in the actions of the Université Foraine project carried out by the IUT component of the UCA via communications, participation in workshops, and the setting up of multidisciplinary projects responding to societal questions. The person recruited will ensure that all his/her work is available on HAL UCA and will favour periodicals open to the whole scientific community.

#### **Science and society:**

The dissemination of scientific culture to the general public will be done annually during the « fête de la science », during the international agriculture show where INRAE, including the UMRF, is regularly present, during conferences organised in the context of the Pôle d'Excellence en Microbiologie, Innovation et Industrie (PEM2i). The person recruited will be encouraged to respond to calls for projects (ANR science for and with society, for example, or INRAE projects in participatory sciences) that are multidisciplinary in nature, in order to respond to societal issues, in close collaboration with local stakeholders.

#### **Indicators:**

The indicators for monitoring the project will be scientific publications (number and impact), obtaining funding to develop academic and business-related research projects (number of applications and success rate), supervision of doctoral students (number, number and quality of publications, professional integration of doctors). Obtaining the HDR quickly will also be an important indicator of success.

Concerning teaching, the implementation of innovative teaching technics and their deployment will be valued.



## Profile required

- Strong experience in fermentation processes, food biotechnology and/or industrial microbiology applied to food and/or human health,
- Experience in research supervision : ability to build and lead ambitious research projects, to train and supervise PhD students and postdocs,
- Teaching experience : teaching in higher education in biology, ability to build training modules.

## Job attractiveness

- The junior lecturer has a teaching service obligation on an annual basis of 64 hours HTD without the possibility of doing complementary courses,
- He/she will be supported throughout the project by a scientific advisor,
- The gross annual salary is : 41 331 € (based on INM 735),
- The junior professor will benefit from an ANR support of 200 k€ (PhD student, post-doc, project funding).

## Organisation of hearings

**Only those candidates who have been selected by the selection committee on the basis of their applications will be invited to the audition.**

**Planned role-playing** YES  NO

The audition will last 50 minutes: it will start with a 20-minute presentation of the candidate's scientific and pedagogical background, motivations, and research and teaching projects. The audition will conclude with 30 minutes of discussion with the members of the selection committee.

At the end of the hearings, the committee will decide on the merits of the candidates, taking into account the quality and originality of their research projects, their motivations, their forward-looking vision of the field and their capacity for scientific and teaching supervision.



## NOMINATION PROCEDURE AND TIMETABLE

Candidates must **imperatively** enter their declaration and submit the documents on the website GALAXIE/FIDIS: <https://galaxie.enseignementsup-recherche.gouv.fr/antares/can/astree/index.jsp>

Opening of registrations on GALAXIE: **February 23, 2024, 10 a.m. (Paris time)**,  
deadline for submission of the file on GALAXIE/FIDIS: **March 25, 2024, 4 p.m. (Paris time)**

**Any file that is still incomplete on the deadline will be declared inadmissible.**

## YOUR APPLICATION FILE

### References:

- Decree No. 2021-1710 of December 17, 2021 relating to the junior professor chair contract provided for by article L. 952-6-2 of the education code and by article L. 422-3 of the code of the research
- Order of 6 February 2023 setting the procedures for applying for recruitment by way of junior professorship contract

The candidates send a file **in digital version** to the President of the University Clermont Auvergne. The file is accessible to the members of the selection board.

In accordance with [article 26 de l'arrêté du 6 février 2023](#), the application file includes the **following documents**:

- 1) The application form entered online (under Galaxie/Fidis);
- 2) Both sides of an identity document with photograph
- 3) A document attesting to the possession of a doctorate, as provided for in article L612-7 of the education code, or for candidates who do not hold a doctorate, a diploma whose equivalence is recognized by the Council of Staff of Teachers and Teacher Researchers (CP2E) of UCA, according to the procedure set out in 1°) of article 5 of decree 2021-1710 of December 17, 2021;
- 4) The diploma defense report produced (Thesis defense report);

It is recommended that the document be on university letterhead with the names of the referees identifiable.

- 5) An analytical presentation of the work, books, articles, achievements and activities related to the profile of the position in question, mentioning those that the candidate intends to present at the audition, **produced on the model of the " fiche de candidature CPJ » (to be downloaded from the CPJ page of the Galaxie portal or [click here](#))**

- 6) Full work of each astide, book or achievement the candidate wishes to present during the audition. (max 6 documents)

### **French translation of certain documents:**

The administrative documents (documents 2 and 3) as well as the defense report written in whole or in part in a foreign language must be accompanied by a translation into French, of which the candidate certifies compliance on honor. Otherwise, the file is declared inadmissible.

The translation of the analytical presentation as well as the works, books, articles and achievements is optional.

**In the event of multiple applications, the candidate must compile a file for each position for which he/she wishes to apply.**

**Warning:Galaxie/Fidis is not compatible with the use of a tablet or smartphone, please use a computer only.**



## ADDITIONAL INFORMATION

**Additional information on recruitment and the characteristics of this UCA contract** are available on the Clermont Auvergne University website: [www.uca.fr](http://www.uca.fr), "University" tab then "Working at UCA" then "Recruitment of teaching staff" and "Recruitment of Junior Professor Chair": please [click here](#)

## YOUR APPLICATION AND STAFFING SCHEDULE

### **Dematerialized application:**

**You will not receive any paper documents from the University.**

The GALAXIE/FIDIS module will allow you:

- to monitor your application(s) and the processing status of each file,
- to learn about the result of the recruitment,
- to formulate, if necessary, your acceptance of position.

### **Provisional timetable:**

- **Collection of applications:** until March 25, 2024 until 4:00 p.m. (Paris time)
- **Selection of applications and auditions\*:** April - May 2024
- **Entry into office:** From September 1, 2024

\* See the calendar on the UCA website: <https://www.uca.fr/universite/travailler-a-luca/recrutement-chaire-professeurs-juniors>